	Application No.	Applicant(s)
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Notice of Allowability	09/653,149	DERDERIAN ET AL.
Notice of Allowability	Examiner	Art Unit
	Thao P. Le	2818
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to <u>10/16/06</u> .		
2. The allowed claim(s) is/are <u>1-3, 6-8, 10-21, 23-25, 34, 36, second</u>	37, 39-42, 44, 45, 47-49, 52-56,	<u>59-62, 65-69, 72-75</u> .
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in th	e Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the dra he header according to 37 CFR 1.1	awings in the front (not the back) of 21(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Information	al Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/16/06	Paper No./Mail 7.	endment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's State	ement of Reasons for Allowance
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Application/Control Number: 09/653,149

Art Unit: 2818

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 10/16/06 was filed after the mailing date of the application. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Amendment

This Office Action is in response to Amendment filed on 10/16/2006.

Claims 4, 5, 22, 35,38, 43, 46, 50, 51, 57, 58, 63, 64, 70, 71 have been cancelled.

Claims 1, 13, 18, 34, 36, 37, 40, 44, 54, 61, 65, 68, 75 have been amended.

Claims 1-3, 6-8, 10-21, 23-25, 34, 36, 37, 39-42, 44, 45, 47-49, 52-56, 59-62, 65-69, 72-75 are pending.

Remark of Applicants has been fully considered.

Reason for allowance

Claims 1-3, 6-8, 10-21, 23-25, 34, 36, 37, 39-42, 44, 45, 47-49, 52-56, 59-62, 65-69, 72-75 are allowed. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed limitations

Art Unit: 2818

having a method of forming a capacitor comprising the step of atomic layer depositing a conductive barrier layer to oxygen diffusion on and in physical contact with a first electrode wherein the barrier layer containing WN and among other limitations cited in independent claims 1, 13, and none of the references of record teaches or suggests the claimed limitations having a method of forming a capacitor comprising the steps of atomic layer depositing or chemisorbing a first metal-containing conductive layer on and physical contact with a first electrode containing HSG polysilicon, forming a capacitor dielectric layer on the atomic layer deposited conductive layer, atomic layer depositing or chemisorbing a second metal containing conductive layer over the dielectric layer and among other limitations cited in independent claims 34, 40.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao P. Le whose telephone number is 571-272-1785. The examiner can normally be reached on M-F (8-6).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor David C. Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/653,149

Art Unit: 2818

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao P. Le

Primary Examiner

Art Unit 2818

November 11, 2006.